

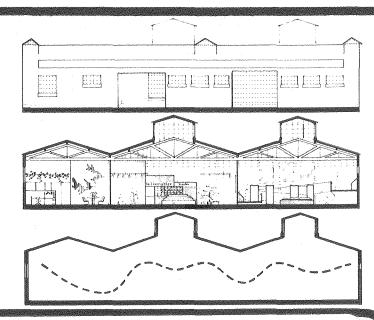
Lawrence Berkeley Laboratory

UNIVERSITY OF CALIFORNIA

ENERGY & ENVIRONMENT DIVISION

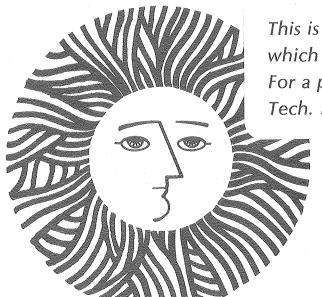
DAYLIGHTING DIRECTORY

1/1980



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Prepared for the U.S. Department of Energy under Contract W-7405-ENG-48

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PARTICIPANT SURVEY RESPONSE

ACTIVITY INDEX

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DAYLIGHTING PUBLICATIONS

NOTES OF INTEREST

ACKNOWLEDGMENT

This report was funded by the Office of Buildings & Community Systems, Assistant Secretary for Conservation and Solar Applications of the U.S. Department of Energy under Contract W-7405-ENG-48.

A renewed interest in the energy conservation potential of daylighting has generated new research, applications and demonstration activities over the last few years. It is apparent that even those people actively working in the field are frequently not aware of all of the ongoing projects and activities. At the same time, the total national effort to utilize daylighting effectively in buildings on a broad scale is still very small, thus making it important that current activities are "crossfertilized".

Given the wealth of historical interest in daylighting, the relative lack of existing expertise and resources in the field and the tremendous interest in the subject now being expressed by design professionals the need for information links among daylighting experts and between experts and building designers has become apparent. The intent of this publication is to fill that need by providing current listings of individuals and organizations that are actively engaged in daylighting work and related publications and upcoming events of interest. This directory was compiled from information contained in the survey response forms which were filled out and returned to us over the last few months. Responsibility for the accuracy and completeness of each survey form lies entirely with the respondents.

The directory is composed of five parts.

- 1. Participant Survey Response: Contains the survey response forms as submitted to us, listed alphabetically by responding organization.
- 2. Activity Index: Lists individual respondents alphabetically, showing the daylighting activities each has checked. Allows the reader to quickly identify the individuals working in a specific area. Once an individual is identified, turn to the "Individual Index" to find the page numbers where that individual may be located in other areas of the directory.
- 3. Individual Index: Lists individual respondents alphabetically.
- 4. Daylighting publications: Lists the publications by each respondent (authors listed alphabetically).
- 5. Notes of Interest: Contains a variety of information on meetings, conferences, new projects and publications, etc. This material was collected from a variety of sources in addition to the survey respondents.

We will update and republish this document at irregular intervals as additional information is compiled. The format and organization is informal and we welcome suggestions as to how successive issues might be changed and/or expanded to increase their usefulness to readers. The information we have collected is also being

Introduction

entered into a computerized data base system with extensive search capabilities. As the directory grows in size, this will allow us to provide updates and specialized searches with a minimum of effort and cost.

This first issue falls far short of including all those who are active and involved in the field of daylighting. We solicit your assistance in identifying other individuals and groups who should be included in future issues.

This publication is being undertaken as a joint effort by the Illuminating Engineering Society (IES) Daylighting Committee and by the Lawrence Berkeley Laboratory as part of its DOE sponsored Energy Efficient Buildings Program.

The IES Daylighting Committee has been responsible over the last 30 years for developing a design and engineering basis for daylighting design in the United States, and updates and revises the recommended practices and the chapters on daylighting in the IES Handbook. Contact Ben Evans, Chairperson for additional information.

Lawrence Berkeley Laboratory is responsible for the DOE Daylighting Program, supported by the Office of Buildings and Community Systems. Research, demonstration, information dissemination and educational activities throughout the United States are planned and sponsored through LBL. Funding from this program currently supports efforts to: develop an availability data base, build artificial skies for model studies, develop simplified design methods, commercialize improved lighting control systems, demonstrate daylighting systems in buildings, study daylighting/thermal tradeoffs, develop novel daylight techniques, and produce and disseminate educational packages for schools and design professionals. Contact Steve Selkowitz for additional information about the daylighting projects.

Ben Evans c/o College of Architecture & Urban Studies Virginia Polytechnic Institute Blacksburg, VA 24061 (703) 961-5383

Stephen Selkowitz, Joyce Popendorf Energy Efficient Windows & Daylighting Program Bldg. 90 Rm.3111 Lawrence Berkeley Laboratory Berkeley, CA 94720 (415) 486-5605

For additional information concerning this publication please contact Joyce Popendorf.

FIRM/ORGANIZATION <u>RELI LABS</u>	DATE 8/30/79
ADDRESS 48-423 Holmdel, NJ ZI	P_07733
NAME <u>Michael A. Duguay</u> PH POSITION/TITLE <u>Dr.</u>	ONE (201) <u>949-3935</u>
CURRENT DAYLIGHTING ACTIVITIES	A CONTRACTOR OF THE PARTY OF TH
CORRENT DATEIGNTING ACTIVITIES	ACTIVITY SUMMARY
Designing solar concentrators	AVAILABILITY
and lens guides for beam	DESIGN METHODS
sunlighting	CONTROLS-LIGHT
santalicing	CONTROLS-SOLAR
	HISTORICAL REVIEW
	CASE STUDIES
	BEAM SUNLIGHTING
	SKYLIGHTS
	GLARE
	THERMAL/ILLUMIN. USER RESPONSE
	USER RESPUNSE
RECENT PUBLICATIONS/PRESENTATIONS	
63' 1 A 1' N 3 3A AAA AAA	
Applied Optics, Vol. 18, pp. 2081-2084, June '79	
American Scientist, Vol. 65, pp. 422-427, July '77	
Applied Optics, Vol. 16, pp. 1444-1446, May '77	BUILDING DESIGNER

FIRM/ORGANIZATION BICKLE/CM INC.	DATE 8/8/79	
ADDRESS 2403 San Mateo, NE Suite S-8 Albuquerque, NM ZIP 87	2110	
NAME <u>Jim McNamara</u> PHONE	(505) 265-3751	
POSITION/TITLE Program Manager		
CURRENT DAYLIGHTING ACTIVITIES	ACTIVITY SUMMARY	1
Our Goals:	AVATLABILITY	
- Optimize the building shell for passive heating or cooling	DESIGN METHODS	
and daylight.	CONTROLS-LIGHT	
- To consider daylight as having a major contribution in	CONTROLS-SOLAR	accession of
reducing a building's energy budget.	HISTORICAL REVIEW	and the same of th
Projects(Energy consultant):	CASE STUDIES	
- 45 story Office Building in Sinapore - Modular Biology Building, City of Hope National Medical	BEAM SUNLIGHTING	-
	SKYLIGHTS	-
Center.	GLARE	_
- Small office building, Albuquerque, New Mexico.	THERMAL/ILLUMIN.	X
	USER RESPONSE	20000000
RECENT PUBLICATIONS/PRESENTATIONS		
		-
		- Personantino
		-
	BUILDING DESIGNER	

FIRM/ORGANIZATION California Energy Commission Conservation Division 1111 Howe Avenue Sacramento, California	DATE 8/3/79 ZIP 95825
NAMEPaula Burnette and Don Carner POSITION/TITLEEnergy Analyst/Energy Conservation	PHONE (916) 920-6085 Specialist
CURRENT DAYLIGHTING ACTIVITIES — Research Project Attitudes Toward Light in the Working Environm A rondom stratified sample of 500 office worke given an attitudinal survey that obtained user respo questions on visibility/visual task performance, hea the eye, the working environment, and attitudes rela light. The Commission developed a special tool for documenting the lighting environment of each subject space. Slides of the hemisphere over the workspace being coded and the physical data will be added to t attitudinal data for an analysis of relative contrib of the physical environment and attitudinal paramete user satisfaction. Results are expected to be avail RECENT PUBLICATIONS/PRESENTATIONS/the end of Novemb	ars was DESIGN METHODS conse to alth of CONTROLS-LIGHT X ated to photo- us work BEAM SUNLIGHTING are now she constructions are to Lable at CONTROLS X AVALLABILITY DESIGN METHODS CONTROLS-SIGN METHODS CONTROLS-SOLAR X HISTORICAL REVIEW CASE STUDIES X BEAM SUNLIGHTING SKYLIGHTS GLARE X THERNAL/ILLUMIN. USER RESPONSE X

FIRM/ORGANIZATION CATER & PARKS INC.	DATE /10/79
ADDRESS 212 So. 28th St.	
NAME Frank M. Cater PHONE	(205) 251-9847
POSITION/TITLE Vice- President	
CURRENT DAYLIGHTING ACTIVITIES	ACTIVITY SUMMARY
Incorportating daylighting design into present projects as a supplement to artificial lighting	AVAILABILITY DESIGN METHODS CONTROLS-LIGHT CONTROLS-SOLAR HISTORICAL REVIEW CASE STUDIES BEAM SUNLIGHTING SKYLIGHTS GLARE THERMAL/ILLUMIN. USER RESPONSE
RECENT PUBLICATIONS/PRESENTATIONS	
	BUILDING DESIGNER

FIRM/ORGANIZATION DAVIDSON LABORATORY	DAT	E 8-1-79
Stevens Institute of Technology		
ADDRESS 711 Hudson Street		this representation with the
Hoboken, New Jersey ZIP	07030	**************************************
NAME Robert L. Van Dyck PHONE	(201) 420-	5292
POSITION/TITLE <u>Research Engineer - Building Technology Rese</u>	arch Divisio	n
		
CURRENT DAYLIGHTING ACTIVITIES	ACTIVITY S	unnary 🗸
	AVAILABILI"	ry /
Currently, working with two thermally-insulated rooms .joined by a window known as the Levolor Environmental	DESIGN METH	HODS X
Simulator. This facility consists of an indoor calori	CONTROLS-L	1 - 1
meter and an "outdoor" solar simulator designed for	CONTROLS-SO	
the purpose of investigating venetian blinds and other	HISTORICAL	
glazing products for potential energy savings or	CASE STUDIE	
solar energy collecting purposes.	BEAM SUNLIC	SHTING X
	SKYLIGHTS GLARE	-
	THERMAL/ILI	JUMIN. X
	USER RESPON	
	USER RESPU	NOE
RECENT PUBLICATIONS/PRESENTATIONS		
"Investigation of Interior Shading for Energy Effi-		
cient Windows," (with Thomas P. Konen). Presented		
at the Mid-Atlantic Solar Energy Association Solar		
Glazing Conference, June 1979.	BUILDING D	ESIGNER

FIRMYORGANIZATION	DESIGN OFFICE CONSORTIUM	comment of the second	DATE 11.9.7	79
ADDRESS	GUILDHALL PLACE CAMBRIDGE UK	ZIP_C	82 300	
NAME	K S BURGESS		(')0223,311246	
POSITION/TITLE	APPLICATIONS CONSULTANT			
CURRENT DAYLIGHTIN	G ACTIVITIES	•	ACTIVITY SUMMARY	1
	PROVIDING A DAYLIGHT ANALYSIS SERVIC USING PUBLICLY AVAILABLE COMPUTER PROGRAMS. ADVISING COMPUTER USERS ON THE SUITABILITY OF PARTICULAR DAYLIG ANALYSIS PROGRAMS.	1	AVAILABILITY DESIGN METHODS CONTROLS-LIGHT CONTROLS-SOLAR HISTORICAL REVIEW CASE STUDIES BEAM SUNLIGHTING SKYLIGHTS GLARE THERNAL/ILLUMIN. USER RESPONSE	
RECENT PUBLICATION				\vdash
Price £5(£2 TO	*COMPUTER PROGRAMS FOR ENERGY IN BUI EVALUATION REPORT NUMBER THREE A comprehensive evaluation of eight computer programs for the prediction			
MEMBERS OF DOCI	daylighting in huildings.		BUILDING DESIGNER	

FIRM/ORGANIZATION Charles Eley Associates	DATE 7/29/7	79
ADDRESS 342 Green Street San Francisco, CA ZIP	94133	,
NAME <u>Charles Elev. AIA</u> PHON POSITION/TITLE <u>Principal</u>	E (415) 398-6535	
CURRENT DAYLIGHTING ACTIVITIES	ACTIVITY SUMMARY	1
	AVAILABILITY DESIGN METHODS CONTROLS-LIGHT CONTROLS-SOLAR HISTORICAL REVIEW CASE STUDIES BEAM SUNLIGHTING SKYLIGHTS GLARE THERMAL/ILLUMIN. USER RESPONSE	XX
RECENT PUBLICATIONS/PRESENTATIONS		
	Architect BUILDING DESIGNER	X

FIRM/ORGANIZATION Glumac and Associates, Inc.	DATE 8/1/79
ADDRESS #1 Embarcadero Center San Francisco, CA ZIP	94111
NAME <u>Rick Thomas</u> PHON POSITION/TITLE <u>Vice-President</u>	E (415) <u>398-7667</u>
CURRENT DAYLIGHTING ACTIVITIES .	ACTIVITY SUMMARY &
Building lighting systems which take advantage of daylighting by photo-control on-off or switching manually. Activities center around practical methods of calculating illum, levels and practical control methods Applications include: Retail stores (skylights/window) Office spaces	AVAILABILITY DESIGN METHODS X CONTROLS-LIGHT X CONTROLS-SOLAR HISTORICAL REVIEW CASE STUDIES BEAM SUNLIGHTING SKYLIGHTS GLARE X THERMAL/ILLUMIN.
RECENT PUBLICATIONS/PRESENTATIONS None	BUILDING DESIGNER

FIRM/ORGANIZATION _ J. W. Griffith	DATE	
ADDRESS 3921 Caruth Blvd. Dallas, TX ·· ZIP 7	5225	
NAME	(214) <u>368-3753</u>	
		ONE STATE OF THE PERSONS
CURRENT DAYLIGHTING ACTIVITIES	ACTIVITY SUMMARY	1
	AVAILABILITY	
	DESIGN METHODS	<u> </u>
,	CONTROLS-LIGHT	
	CONTROLS-SOLAR HISTORICAL REVIEW	-
	CASE STUDIES	X X
·	BEAM SUNLIGHTING	十
	SKYLIGHTS	1-1
	GLARE	
	THERMAL/ILLUMIN.	
	USER RESPONSE	
RECENT PUBLICATIONS/PRESENTATIONS		+
Daylight & energy conscious design	METATORIA CONTRACA A CONTRACTOR MANAGEMENT CONTRACTOR C	+
ASHRAE Symposium Detroit conference transactions 1979 Vol. 85 part 2		口
υταποαυτίσηο 1979 τοι. 69 ματί 2	BUILDING DESIGNER	力

		THE THE PERSON
FIRM/ORGANICATION _ IBM Scientific Center	DATE 7/26/7	79
ADDRESS 9045 Lincoln Blvd. Los Angeles, Ca. ZIP	90045	
Dr. S. A. Jurovics	(213) 670-8350	
POSITION/TITLE Member, Scientific Staff		
CURRENT DAYLIGHTING ACTIVITIES	ACTIVITY SUMMARY	1
A computer program has been developed which predicts the	AVAILABILITY	
brightness at a point in a room due to natural light. The	DESIGN METHODS	V
program accesses the data of J. V. Dave to obtain the	CONTROLS-LIGHT	V
direct and diffuse radiation exterior to the room. The	CONTROLS-SOLAR	
lighting program has been integrated into a particular	HISTORICAL REVIEW	
version of NBSLD. This version calculates optimal window	CASE STUDIES	
sizes, taking into account the thermal/illumination	BEAM SUNLIGHTING	
tradeoff.	SKYLIGHTS	
	GLARE	
	THERMAL/ILLUMIN.	V
	USER RESPONSE	
RECENT PUBLICATIONS/PRESENTATIONS ·		\vdash
"Solar Radiation Data, Natural Lighting, and Building	MINTER'S Province (селение селения) реаксивания и полученующими и для в в 122 додач	\vdash
Energy Minimization, presented at ASHRAE Symposium,		+
June 1979, Detroit, paper number DE-79-2 No. 1, and		+
IBM LASC Report No. G320-2699.	BUILDING DESIGNER	+

FIRM/ORGANIZATION William Lam Associates, Inc.	DATE 8/1/79
ADDRESS 101 Foster Street Cambridge, MA ZII	P 02138
NAME William Lam PHO POSITION/TITLE President	ONE (617) 354-4502
CURRENT DAYLIGHTING ACTIVITIES	ACTIVITY SUMMARY 🗸
Consulting in several projects including TVA - Chattanooga, which uses beam sunlighting. Teaching at Harvard Graduate School of Design and M. I. T. in 1979-80.	AVAILABILITY DESIGN METHODS X CONTROLS-LIGHT X CONTROLS-SOLAR X HISTORICAL REVIEW CASE STUDIES BEAM SUNLIGHTING X SKYLIGHTS X GLARE X THERMAL/ILLUMIN. X USER RESPONSE X
RECENT PUBLICATIONS/PRESENTATIONS	
Energy Inform Summer Workshop in Energy Conscious Design	Consultant to BUILDING DESIGNER X

	13/20
FIRM/ORGANIZATION <u>Lawrence Berkeley Laboratory</u>	DATE 12/79
ADDRESS Bldg. 90, Rm. 3111	
NOUNLOV	IP 94720
	400
NAME Stephen Selkowitz p	HONE (415) 486-5605
POSITION/TITLE Program Manager, LBL/DOE Daylighting Pro	gram
CURRENT DAYLIGHTING ACTIVITIES	ACTIVITY SUMMARY
Responsible for OOE supported Windows and Daylighting Program. Program includes research, demonstration and educational activities designed to promo	te AVAILABILITY X
wide spread utilization of daylight in buildings. Projects include:	DESIGN METHODS X
 Daylighting availability studies and illumination/insolation correlations 	CONTROLS-LIGHT X
2. Design and construction of a 24' diameter artificial sky for model studies	CONTROLS-SOLAR X
 Demonstrations of energy savings from daylighting in two office buildings 	HISTORICAL REVIEW
4. Commercialization of dimmable fluorescent ballasts & improved lighting contro	CHOL STODILS
Development of clear sky design methods and simiplified design tools	BEAM SUNLIGHTING X
Integration of daylighting capabilities into building thermal analysis models	SKYLIGHTS
7. Determination of impact of daylighting in utility loads & peak demands	GLARE
8. Test and evaluation of beam sunlighting concepts	THERMAL/ILLUMIN, X
 Development and dissemination of Daylighting Educational Resource Package & DOE Daylighting Resource Center 	USER RESPONSE
RECENT PUBLICATIONS/PRESENTATIONS "Beam Daylighting, An Alternative Illumination Technique", Energy and Building, Vol. No. 1, 1977.	

"Daylighting and Passive Solar Buildings", Proceedings of the 3rd National Passive Solar Conference, PP. 271-281, January, 1979.	BUILDING DESIGNER

FIRM/ORGANIZATION	LIGHTING RESEARCH LABORATORY		DATE 7-3	-79
ADDRESS	P O BOX 6193			
Control of the Contro	ORANGE, CA	ZIP	92667	
NAME	Bill F. Jones	PHONE	(714) 771-1312	
POSITION/TITLE	Owner			
CURRENT DAYLIGHTIN	G ACTIVITIES		ACTIVITY SUMMARY	
			AVAILABILITY	X
			DESIGN METHODS	X
	•		CONTROLS-LIGHT	4
			CONTROLS-SOLAR	
			HISTORICAL REVIEW CASE STUDIES	
			BEAM SUNLIGHTING	+
			SKYLIGHTS	X
			GLARE	X
			THERMAL/ILLUMIN.	+
		!	USER RESPONSE	
RECENT PUBLICATION	C / DBC CEAPTATT ONE			
NECENI PUBLICATION	o/ Presentations			
	,			
			BUILDING DESIGNER	lx

FIRM/ORGANIZATION NASA Langley Research Center	DATE 7/30/79
ADDRESS M/S 235 Hampton, VA ZIP	23665
NAME Howard B. Edwards PHONE	(804) 827-3907
POSITION/TITLE Chief. Instrument Research Division	
CURRENT DAYLIGHTING ACTIVITIES	ACTIVITY SUMMARY &
Design of internally reflecting light pipes to carry both	AVAILABILITY
sunlight and sky light to inside rooms. Includes special effects such as spot lighting from sky light.	DESIGN METHODS
Silects and as abot francing from pay right.	CONTROLS-LIGHT CONTROLS-SOLAR
	HISTORICAL REVIEW
	CASE STUDIES
	BEAM SUNLIGHTING
	SKYLIGHTS
	GLARE
	THERMAL/ILLUMIN. USER RESPONSE
	LIGHT PIPES
RECENT PUBLICATIONS/PRESENTATIONS	
NASA Tech Brief No. LAR-12333, Optics for Natural Lighting, NASA Tech Briefs Summer 1978.	
Howard B. Edwards, Bringing Outdoor Light Indoors, The	
Virginia Engineer, Feb. 1979, p. 19.	
	BUILDING DESIGNER

FIRM/ORGANIZATION National Bureau of Standards	DATE 7/30/79
ADDRESS National Bureau of Standards Building 226 Room B10 Washington, D.C ZIP	20234
NAME Dr T. Kusuda / Stephen Treado PHONE POSITION/TITLE Group Leader, Thermal Analysis	(301) 921-3501
CURRENT DAYLIGHTING ACTIVITIES	ACTIVITY SUMMARY
Daylighting measurements under various sky conditions for different window characteristics and task portions.	AVAILABILITY DESIGN METHODS CONTROLS-LIGHT
Mathematical modeling of total daylighting with respect to total hemispherical outdoor radiation.	CONTROLS-SOLAR V HISTORICAL REVIEW CASE STUDIES
	BEAM SUNLIGHTING SKYLIGHTS GLARE
	THERMAL/ILLUMIN. V USER RESPONSE
RECENT PUBLICATIONS/PRESENTATIONS	ENERGY CONSERVATION
Comapritive Analysis between simplified daylighting calculation	
procedures and comprehensive interreflections model calculation	2
procedures of CLIM and LUMEN-II. Third symposium on the use	
of Computer for Enviromental Engineering Related to Buildings, BANFF May 1978.	BUILDING DESIGNER V

FIRM/ORGANIZATION NATIONAL FENESTRATION COUNCIL	DATE 11/14/79
ADDRESS NATIONAL BUREAU OF STANDARDS BUILDING RESEARCE WASHINGTON, D.C.	CH RM B-104 ZIP 20234
NAME GARY GILLETTE POSITION/TITLE RESEARCH ASSOCIATE	PHONE (301)921-3285
CURRENT DAYLIGHTING ACTIVITIES	ACTIVITY SUMMARY
Effort is presently underway to develop daylighting algorithms for use in DOE-2 and other energy simulation computer programs. Daylight availability data will be collected for Washington, D.C. beginning early in 1980.	AVAILABILITY DESIGN METHODS CONTROLS-LIGHT CONTROLS-SOLAR HISTORICAL REVIEW CASE STUDIES BEAM SUNLIGHTING SKYLIGHTS GLARE THERMAL/ILLUMIN. USER RESPONSE
RECENT PUBLICATIONS/PRESENTATIONS "A Review of the State-of-the-Art of Daylighting in Buildings" "The Energy Implications of Daylighting in Classroom Design"	DAYLIGHT/ENERGY BUILDING DESIGNER

FIRM/ORGANIZATION Pacific Gas & Electric Co.	DATE 8/7/79
ADDRESS <u>245 Market St., Rm 736</u> San Francisco, CA	ZIP <u>94106</u>
NAME Fred J. Klammt	PHONE (415) 781-4211, X2627
POSITION/TITLE Energy Utilization Engineer	
CURRENT DAYLIGHTING ACTIVITIES	ACTIVITY SUMMARY 🗸
Interaction of HVAC & lighting energy conservation through daylighting. Industrial and commercial building auditing with emphasis on reducing lighting energy requirements in window areas, without increasing HVAC operating costs	AVAILABILITY DESIGN METHODS CONTROLS-LIGHT
RECENT PUBLICATIONS/PRESENTATIONS	BUILDING DESIGNER

FIRM/ORGANIZATION Pilkington Glass Ltd.	DATE 8/79
ADDRESS 101 Richmond St. West Toronto, Ontario, Canada ZIP M5	H 1V9
NAME Stan Metrick PHONE	(416) 363-7561
POSITION/TITLE <u>Technical Manager</u>	DO BECONO CONTRACTOR AND CONTRACTOR CONTRACT
CURRENT DAYLIGHTING ACTIVITIES	ACTIVITY SUMMARY &
	AVAILABILITY
	DESIGN METHODS CONTROLS-LIGHT
	CONTROLS - LIGHT
	HISTORICAL REVIEW
	CASE STUDIES
	BEAM SUNLIGHTING
	SKYLIGHTS
	GLARE
	THERMAL/ILLUMIN.
	USER RESPONSE
RECENT PUBLICATIONS/PRESENTATIONS	
	BUILDING DESIGNER

FIRM/ORGANIZATION Princeton Energy Group	DATE 8/13/79
ADDRESS 729 Alexander Rd. Princeton, NJ ZIP	08540
NAME <u>William L. Glennie</u> PHON POSITION/TITLE <u>Design Analyst</u>	E (609) <u>452-8235</u>
CURRENT DAYLIGHTING ACTIVITIES	ACTIVITY SUMMARY 🗸
Design of components for Butter Manufacturing Co. Development of program to analyze unusual and irnovative lighting configurations.	AVAILABILITY DESIGN METHODS X CONTROLS-LIGHT X CONTROLS-SOLAR X HISTORICAL REVIEW CASE STUDIES BEAM SUNLIGHTING SKYLIGHTS GLARE
RECENT PUBLICATIONS/PRESENTATIONS	THERMAL/ILLUMIN. USER RESPONSE BUILDING DESIGNER

FIRM/ORGANIZATION Rohm and Haas Company	DATE 8/1/79	
ADDRESS Plastics Engineering Laboratory		
P.O. Box 219, Bristol, PA ZIP	19007	
NAME <u>William C. Burkhardt</u> PHONE	(215) 785-8302	
POSITION/TITLE Applications Engineer		
		esercend germanu
CURRENT DAYLIGHTING ACTIVITIES	ACTIVITY SUMMARY	1
We are currently providing a free service to Architects, Consulting Engineers, and Builder/Owners that analyzes the	AVAILABILITY	
energy transfers thru a skylighted roof. It also predicts	DESIGN METHODS	X
the illumination level (hourly and monthly) inside of a	CONTROLS-LIGHT	X
building with skylights on clear and overcast days. We also	CONTROLS-SOLAR	A
discuss light and solar control using tinted acrylic glazing.	HISTORICAL REVIEW CASE STUDIES	
	BEAM SUNLIGHTING	
	SKYLIGHTS	X
	GLARE	Ŷ
	THERMAL/ILLUMIN.	-
	USER RESPONSE	П
RECENT PUBLICATIONS/PRESENTATIONS		
Solar U-Number (S-U-N) Modifiers for Skylights, (ASHRAE),		
Annual Technical Conf., 6/27/79, Detroit, MI, ASHRAE Trans.		
1979, Vol. 85, Part 2.	Pattern to the state of the sta	
	BUILDING DESIGNER	

FIRM/ORGANIZATION S & H Information Systems, I	nc.	DATE 8/:	/79
ADDRESS 11 West 42nd St., New York, W.Y.	ZIP	10036	and () builds reconstructed
NAME Laheri Mehta, P.E.	PHONE	(212) 921-2807	
POSITION/TITLETechnical Director			
CURRENT DAYLIGHTING ACTIVITIES		ACTIVITY SUMMARY	1
	!	AVAILABILITY DESIGN METHODS CONTROLS-LIGHT	V
		CONTROLS-SOLAR HISTORICAL REVIEW CASE STUDIES BEAM SUNLIGHTING	* X
		SKYLIGHTS GLARE THERMAL/ILLUMIN	Y Y
RECENT PUBLICATIONS/PRESENTATIONS		USER RESPONSE	Ŕ
	over the community	BUILDING DESIGNER	

FIRM/ORGANIZATION Smith Hinchman & Grylls Assoc., Inc DATE 7/25/79		
ADDRESS 455 W. Fort Detroit, Michigan ZIP	48226	
NAME David L. DiLaura PHONE POSITION/TITLE Illuminating Engineer	(313) 964-3000	
		003040400
CURRENT DAYLIGHTING ACTIVITIES	ACTIVITY SUMMARY	1
Investigating advanced computational tools for use in daylighting design. This includes mathematical models and algorithms for the efficient and economical calculation of the effects of daylighting with realistic control devices.	DESIGN METHODS CONTROLS-LIGHT CONTROLS-SOLAR HISTORICAL REVIEW CASE STUDIES BEAM SUNLIGHTING SKYLIGHTS GLARE	XXX
RECENT PUBLICATIONS/PRESENTATIONS "On Calculating the Effects of Daylighting in Interior Spaces", D.L. DiLaura and G. Hauser, Journal of the Illuminating Engineering Society, October, 1978	BUILDING DESIGNER	

CONTROL OF THE PROPERTY OF THE	80401 (303) 231-1185	
CURRENT DAYLIGHTING ACTIVITIES * Complifing Daylighting Bibliography * Technical Report on laylighting design methodologies * Simple comparative analysis of predicted and measured daylight performance. * Select concept generation, testing and assessment of combined lighting, heating and cooling systems for commercial buildings.	ACTIVITY SUMMARY AVAILABILITY DESIGN METHODS CONTROLS-LIGHT CONTROLS-SOLAR HISTORICAL REVIEW CASE STUDIES BEAM SUNLIGHTING SKYLIGHTS GLARE THERMAL/ILLUMIN. USER RESPONSE	XX
* Directory of People in Daylighting	BUILDING DESIGNER	XX

FIRM/ORGANIZATION Southern California Ediso	on Company DATE 8-3-79
ADDRESS P.O. Box 800 Rosemead, California	ZIP 91770
NAME Andrew V. Bonner	PHONE (213) 572-2020
POSITION/TITLE Lighting Services Coordinator	
CURRENT DAYLIGHTING ACTIVITIES	ACTIVITY SUMMARY. 🗸
Member-CEC Daylighting Task Force	AVAILABILITY DESIGN METHOUS CONTROLS-LIGHT CONTROLS-SCLAR HISTORICAL PEVIEW CASE STUDIES BEAM SUNLIGHTING SKYLIGHTS GLARE THERMAL/ILLUMIN. USER RESPONSE
RECENT PUBLICATIONS/PRESENTATIONS	BUILDING DESIGNES

FIRM/ORGANIZATION	STEVENS LUMINOPTICS CORPORATION		DATE 7/27/	79
ADDRESS	12907 "H" Alcosta Blvd.			
	San Ramon, California	ZIP 9	4583	
NAME	W.R. Alling	PHONE	(415) 838-8092	
POSITION/TITLE	Vice President & General Manager		Distribution of the state of th	en e
CURRENT DAYLIGHTING	ACTIVITIES		ACTIVITY SUMMARY	1
Energy efficient lig	ghting, electronic ballasts, propo	reional	AVAILABILITY	
	for lighting, integrated skylight		DESIGN METHODS	$\downarrow \downarrow \downarrow$
	veloping four daylighting demonst		CONTROLS-LIGHT	X
	parts of the country utilizing both		CONTROLS-SOLAR HISTORICAL REVIEW	-
and fluorescent ligh		-	CASE STUDIES	+
			BEAM SUNLIGHTING	+
			SKYLIGHTS	X
		Đ.	GLARE	121
		ľ	THERMAL/ILLUMIN.	X
			USER RESPONSE	
RECENT PUBLICATIONS/	PRESENTATIONS			
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		-		1
7.4-7			BUILDING DESIGNER	

FIRM/ORGANIZATION JULES THORN LIGHTING LABORATORY	DATE 19/9/79	
ADDRESS Great Cambridge Road Enfield, Middlesex, England ZIP	Eni IIIL	
NAMEPHONE	()01- 363-5353	
POSITION/TITLE Project Engineer	1970 да бого тот потеритот по тот потеритот да подат по тот п Регира на принципата по тот потеритот по тот по	
CURRENT DAYLIGHTING ACTIVITIES	ACTIVITY SUMMARY	1
Research and consultanting in all aspects of lighting	AVAILABILITY DESIGN METHODS	X
·	CONTROLS-LIGHT CONTROLS-SOLAR HISTORICAL REVIEW	X
	CASE STUDIES BEAM SUNLIGHTING	
	SKYLIGHTS GLARE	X
	THERMAL/ILLUMIN. USER RESPONSE	X
RECENT PUBLICATIONS/PRESENTATIONS "Principles of Natural Lighting", Applied Science Publishers		
"Developments in Lighting "(editor) " " "		
Joint Paper w Crisp, Collins & Hunt, CIE Conference, Kyoto,	BUILDING DESIGNER	

FIRM/ORGANIZATION Eric Thrun Associates, Ltd.	DATE 30-07-79
ADDRESS 200-1177 W. Broadway Vancouver, B.C., Canada	ZIP <u>V6H-3N5</u>
NAME <u>Eric Thrun</u> P. Eng. POSITION/TITLE <u>Preside</u> nt	PHONE (604) 734-4123
CURRENT DAYLIGHTING ACTIVITIES	ACTIVITY SUMMARY
Lumen II computer analysis of levels of classical raw illumination & equivalent sphere illumination available from daylight in typical office/school spaces (contract with public works, Canada). Variables included 2 days of the year, 3 times per day, cloudy & clear sky, 3 latitudes, window wverhang & no overhang, 3 room sizes, 4 window orientations.	AVAILABILITY DESIGN METHODS CONTROLS-LIGHT CONTROLS-SOLAR HISTORICAL REVIEW CASE STUDIES BEAM SUNLIGHTING SKYLIGHTS GLARE THERMAL/ILLUMIN. USER RESPONSE
RECENT PUBLICATIONS/PRESENTATIONS Report to be completed Sept. 1979 & will contain 81 color daylight graphs covering 4 viewing direction for each of 864 conditions	ns
וויי פמנון טון סטיי בטוועוניוטווג	BUILDING DESIGNER

FIRM/ORGANIZATION TISHMAN RESEARCH CORPORATION	DATE Aug. 1979
ADDRESS 666 Fifth Avenue New York, NY ZIP	10019
NAME Oscar Turner PHONE	(212) 399-3285
POSITION/TITLE Architect	entretaries tot er cocones e e e cocones como como como e e e coco como e e
CURRENT DAYLIGHTING ACTIVITIES	ACTIVITY SUMMARY
 Evaluating construction projects for application of daylighting. 	DESIGN METHODS CONTROLS-LIGHT
 Working as consultant to PPG to promote day- lighting concepts with owners, designers and code officials. 	CONTROLS-SOLAR HISTORICAL REVIEW CASE STUDIES BEAM SUNLIGHTING SKYLIGHTS
	GLARE THERMAL/ILLUMIN. USER RESPONSE
RECENT PUBLICATIONS/PRESENTATIONS	
l. The National Real Estate Investor, August, 1979 "Window Management Can Lead to Energy Savings	BUILDING DESIGNER

FIRM/ORGANIZATION	DEPARTMENT OF ARCHITECTURAL E	GINEERING DATE 8-1-79
ADDRESS	THE PENNSYLVANIA STATE UNIVERSITY PARK, PA. Z	SITY IP16802
	JOHN E. FLYNN PROFESSOR OF ARCHITECTURAL ENG	HONE (814) 863-2085 GINEERING
CURRENT DAYLIGHTING	ACTIVITIES	ACTIVITY SUMMARY &
PROGRAM FOR PR DAYLIGHTING PE	DEVELOPING A COMPUTERIZED EDICTING AND EVALUATING RFORMANCE IN A MANNER THAT WITH THERMAL ANALYSIS (PSU/DLT)	AVAILABILITY X DESIGN METHODS X CONTROLS-LIGHT CONTROLS-SOLAR HISTORICAL REVIEW X CASE STUDIES BEAM SUNLIGHTING SKYLIGHTS GLARE THERMAL/ILLUMIN. X USER RESPONSE X
RECENT PUBLICATIONS	/PRESENTATIONS	
DAYLIGHTING BU	HE STATE-OF-THE-ART FOR ILDINGS" MARCH 1979 ingsbury, Gary Gillette)	BUILDING DESIGNER

FIRM/ORGANIZATION The Pennsylvania State University	DATE 7-30-79
ADDRESS 204 Engineering 'A' - Dept. of Architectural Engine University Park, Pennsylvania ZIP 1	
NAME H. F. Kingsbury PHONE POSITION/TITLE Associate Professor	(814) 863-2076
CURRENT DAYLIGHTING ACTIVITIES	ACTIVITY SUMMARY
Have research grant from private sponsor to investigate coordination of thermal and luminous calculations via computer program.	AVAILABILITY DESIGN METHODS CONTROLS-LIGHT CONTROLS-SOLAR HISTORICAL REVIEW CASE STUDIES BEAM SUNLICHTING SKYLIGHTS GLARE THERMAL/ILLUMIN. USER RESPONSE
RECENT PUBLICATIONS/PRESENTATIONS	
With John Flynn & Gary Gillette, have made report to sponsor on a "Review of the Current State of the Art on Daylighting".	BUILDING DESIGNER

FIRM/ORGANIZATION <u>University of California</u> . Berkeley	DATE 8/31/79
ADDRESS Berkeley, California	ZIP 94720
NAME <u>Edward Dean</u> POSITION/TITLE <u>Assistant Professor of Architecture</u>	PHONE (415) 642-7510
CURRENT DAYLIGHTING ACTIVITIES Teaching - undergraduate courses in Building Technology, Design Studio graduate courses in Building Technology, Graduate Design Studios	ACTIVITY SUMMARY AVAILABILITY DESIGN METHODS CONTROLS-LIGHT CONTROLS-SOLAR HISTORICAL REVIEW CASE STUDIES BEAM SUNLIGHTING SKYLIGHTS GLARE THERMAL/ILLUMIN. USER RESPONSE
RECENT PUBLICATIONS/PRESENTATIONS	BUILDING DESIGNER

FIRM/ORGANIZATION UCLA School of Architecture	DATE July '79
ADDRESS 405 Hilgard Ave. Los Angeles, California Z	IP 90024
NAME Murray Milne P	HONE (213) 825-7370
POSITION/TITLE Professor	
CURRENT DAYLIGHTING ACTIVITIES	ACTIVITY SUMMARY 🗸
 SOLAR-2 computer model of direct sunlight penetration for design of fins, overhangs. 	AVAILABILITY DESIGN METHODS X CONTROLS-LIGHT X
- Teaching course on Natural/Artificial Light for architects.	CONTROLS-SOLAR X HISTORICAL REVIEW CASE STUDIES
	BEAM SUNLIGHTING X SKYLIGHTS GLARE
	THERMAL/ILLUMIN. X USER RESPONSE
RECENT PUBLICATIONS/PRESENTATIONS	TEACH COURSE X
- SOLAR-2 - described in ISES Proceedings 1977 (Orland conference).	0
	BUILDING DESIGNER X

FIRM/ORGANIZATION University of New Hampshire	DATE _	
ADDRESS Dept. of Electrical Engineering - Kingsbury Hall Durham, NH ZIP	03824	
NAMEJoseph B. Murdoch PHONE POSITION/TITLEProfessor	(603) 862-1357	COLUMN TO SERVICE SERV
CURRENT DAYLIGHTING ACTIVITIES	ACTIVITY SUMMARY	7
 Development of computerized energy trade off studies of skylights. Energy trade off analysis of north facing windows. Analysis of slope glazing systems. 	AVAILABILITY DESIGN METHODS CONTROLS-LIGHT CONTROLS-SOLAR HISTORICAL REVIEW CASE STUDIES BEAM SUNLIGHTING SKYLIGHTS GLARE THERMAL/ILLUMIN. USER RESPONSE	
RECENT PUBLICATIONS/PRESENTATIONS		
"A procedure for Calculating the Potential Savings in Lighting Energy from the Use of Skylights", Journal of IES, July, 1977.	BUILDING DESIGNER	
	BUILDING DESIGNER	

FIRM/ORGANIZATION SOLARCH-SOLAR ENERGY RESEARCH UNIT	DATE 10/79	
THE GRADUATE SCHOOL OF THE BUILT ENVIRONMENT ADDRESS UNIVERSITY OF NEW SOUTH WALES, SYDNEY.		
P.O. BOX 1. KENSINGTON AUSTRALIA ZIP	2033	
NAME	E (02) 662-3282	
CURRENT DAYLIGHTING ACTIVITIES	ACTIVITY SUMMARY	1
1. BEAM SUNLIGHTING USING TRACHING MIRROR SYSTEMS & PRISMAT REFRACTOR PANELS (DUAL STUDIES) TO LIGHT DEEP SIDE LIT	IC AVAILABILITY	
SPACES. JOINT PROJECT WITH N. RODGERS OF LIGHTING RESEAF	CH DESIGN METHODS	<u> </u>
UNIT OF ABOVE SCHOOL	CONTROLS-LIGHT CONTROLS-SOLAR	-
2. DEVELOPMENT OF SHADE COEFFICIENT VALUES FOR LOCAL CONDIT	HISTORICAL REVIEW	1
IONS INCLUDING INSULATION VALUE OF VARIOUS WINDOW TREAT-	CASE STUDIES	+
MENTS AND LIGHT TRANSMISSION BY EMPIRICAL STUDIES.	BEAM SUNLIGHTING	V
	SKYLIGHTS	I
	GLARE	
	THERMAL/ILLUMIN.	
	USER RESPONSE	\downarrow
RECENT PUBLICATIONS/PRESENTATIONS		1
Rodger, N.C., Ballinger, J.A., Dunkerley, C. An Analysis of		+
Innovative Methods in Natural Lighting Architectural Science		+
Review, Vol. 22 No.2. 1979 p. 44-48		+
Ballinger, J.A. Report on Energy Conservation Research (in	BUILDING DESIGNER	
Australial Proc. Symp. Solar Energy Univ. of Sydney. Aug. 7		TA
(in press)	

FIRM/ORGANIZATION Lighting Research Unit Graduate School of the Built Environment Faculty of ADDRESS University of New South Wales, P.O. Box 1 Kensington Sydney, Australia ZIP 20		
NAME Nancy Rodgers PHONE POSITION/TITLE Director of Lighting Research Unit	(2) 662-3080	
CURRENT DAYLIGHTING ACTIVITIES .	ACTIVITY SUMMARY AVAILABILITY DESIGN METHODS CONTROLS-LIGHT CONTROLS-SOLAR HISTORICAL REVIEW CASE STUDIES BEAM SUNLIGHTING SKYLIGHTS GLARE THERMAL/ILLUMIN. USER RESPONSE	/ K
RECENT PUBLICATIONS/PRESENTATIONS AN ANALYSIS OF INNOVATIVE METHODS IN NATURAL LIGHTING Architectural Science Review, Vol. 22, No. 2, 1979 EFFICIENT DAYLIGHTING Seminar Graduate School of the Buil		
Environment University of New South Wales, September, 1979	BUILDING DESIGNER	

FIRM/ORGANIZATION U.S.C. INTERMATIONAL CENTER FOR THE STUDY OEDUCATIONAL FACILITIES ADDRESS University of Southern California, Waite Phillips Hall 3470 University Avenue, Los Angeles, CA. ZIP	L. Room 903
NAME Charles D. G1bson PHONE POSITION/TITLE Director	(213) 741-2401
CURRENT DAYLIGHTING ACTIVITIES	ACTIVITY SUMMARY AVAILABILITY DESIGN METHODS X CONTROLS-LIGHT X CONTROLS-SOLAR HISTORICAL REVIEW X CASE STUDIES X BEAM SUNLIGHTING SKYLIGHTS GLARE X THERMAL/ILLUMIN. USER RESPONSE
RECENT PUBLICATIONS/PRESENTATIONS	BUILDING DESIGNER

FIRM/ORGANIZATION University of Washington	DATE 8/14/79
208 Gould Hall JO-20 ADDRESS University of Washington	
Seattle. WA ZIP	98195
NAME James Bedrick PHO	NE (206, 543-4180
POSITION/TITLE Research Assistant	Geographic suppose and the sup
CURRENT DAYLIGHTING ACTIVITIES	ACTIVITY SUMMARY ~
Development of UWLIGHT lighting simulation	AVAILABILITY
program	DESIGN METHODS X
	CONTROLS-LIGHT
Integration of thermal and lighting simulation	CONTROLS-SOLAR
programs ·	HISTORICAL REVIEW
Development of new daylighting design method	CASE STUDIES
peaerobileur or new dalitauring deargh merupd	BEAM SUNLIGHTING
	SKYLIGHTS
	GLARE
	THERMAL/ILLUMIN. X
	USER RESPONSE
RECENT PUBLICATIONS/PRESENTATIONS	
Papers/workshop presentations at 2nd, 3rd, and	
4th Nat. Passive Solar Conferences.	
Co-author (with M. Millet) of paper to be pub-	
lished in Lighting Design and Application.	
	BUILDING DESIGNER X

FIRM/ORG/	ANIZATION Department of Architecture		AND PROGRAMMENTS	DATE	8-3-79					
ADDDECC	College of Architecture & Urban Planning					l				
ADDRESS	University of Washington, Seattle, WA	ashington, Seattle, WA ZIP 9								
El Company	ietta S. Millet	PHONE	(206)	543-473	6					
POSITION,	TITLE Assistant Professor	ek som om en	****		و موسان المساندة المس	1				
					Marine Springer and Section 1997	annound .				
	DAYLIGHTING ACTIVITIES		ACTIV	ITY SUM	MARY	1				
	g 3 year Washington State funded research proje orporation of Energy Conservation Principles i		AVAIL	ABILITY		X				
Desi	gn of State Buildings" as team member responsi	ole	DESIG	N METHO	DS	X				
	lighting considerations.			OLS-LIG	THE RESERVE THE PROPERTY OF THE PARTY OF THE					
				OLS-SOL		\perp				
	ng work on Daylighting Design Method developed		Accession to the second	RICAL RI STUDIES	Market Commence of the Commenc	X				
with with	Jim Bedrick.		DOT DESCRIPTIONS OF STREET	SUNLIGH	STOTT AND ADDRESS OF THE PARTY	쒸				
			SKYLI		1 4 , 1()	+				
			GLARE			1				
			THERM	AL/ILLU	MIN.					
			USER	RESPONS	E					
RECENT PI	UBLICATIONS/PRESENTATIONS					1				
	llet, M.S., "Daylighting Design Guidelines for	the	in the second			-				
	cific Northwest". Proceedings of Solar 79 North		1000 Commence			₩				
	gust 10-12, 1979, Seattle, WA. In preparation			· votimed at a reconstruction		\vdash				
			BUILD	ING DES	IGNER	世				

FIRM/ORGANIZATION <u>University of Wisconsin - Extension</u>	DATE 9/21/79
ADDRESS 432 North Lake Street Madison, WI ZIP 53 NAME Mike Aimone PHONE POSITION/TITLE Program Coordinator	(608) <u>263-7426</u>
CURRENT DAYLIGHTING ACTIVITIES	ACTIVITY SUMMARY
Tailor a set of daylighting criteria for use by Wisconsin A-E firms, home builders, government offices. Develop a short course to offer by the Univ. Extension RECENT PUBLICATIONS/PRESENTATIONS	AVAILABILITY DESIGN METHODS CONTROLS-LIGHT CONTROLS-SOLAR HISTORICAL REVIEW CASE STUDIES BEAM SUNLIGHTING SKYLIGHTS GLARE THERMAL/ILLUMIN. USER RESPONSE
	BUILDING DESIGNER

FIRM/ORGANICATION <u>Van der Ryn, Calthorpe & Partners</u>	DATE	
ADDRESS Drawer F Inverness California ZIP	94937	,
NAME SCOTT MATTHEWS PHONE	1415 669-7155	
POSITION/TITLE Principal		
CURRENT DAYLIGHTING ACTIVITIES	ACTIVITY SUMMARY	1
Design & analysis of daylighting system for one million	AVAILABILITY	
sq.ft. office complex for TVA. System uses mirrored light	DESIGN METHODS	
shelves, computer operated solar control for atrium roof,	CONTROLS-LIGHT	x
and automatically dimmed indirect ambient lighting for	CONTROLS-SOLAR	×
maximum daylighting of office spaces.	HISTORICAL REVIEW	
model tests	CASE STUDIES	
•full scale mockup	BEAM SUNLIGHTING	X
•experimental correlation of insolation, sky conditions,	SKYLIGHTS	
measured illumination. For computer simulation of	GLARE	
yearly system performance.	THERMAL/ILLUMIN.	
	USER RESPONSE	
RECENT PUBLICATIONS/PRESENTATIONS	MIRROR-REFLECTED	
•	DAYLIGHT	X
·TVA Project Case StudySeptember 1979 AIA Journal	INSOLATION/ILLUMIN.	
	CORRELATION	X
	•	
, i	BUILDING DESIGNER	×

FIRM/ORGANIZATION	DATE 8/79
ADDRESS 434 15th St. S.E. Washington, D.C.	ZIP 20003
NAME Marquerite Villecco	PHONE (202) 547-2349
POSITION/TITLE Consultant to TVA & National Endowment	for Arts
CURRENT DAYLIGHTING ACTIVITIES	ACTIVITY SUPMARY 🗸
	AVAILABILITY DESIGN METHODS CONTROLS-LIGHT CONTROLS-SOLAR HISTORICAL REVIEW X CASE STUDIES X BEAM SUNLIGHTING SKYLIGHTS GLARE THERMAL/ILLUMIN. USER RESPONSE
RECENT PUBLICATIONS/PRESENTATIONS AIA Journal 9/79	Education & Program Support X BUILDING DESIGNER

FIRM/ORGANIZATION John Yellott Engineering Associates, Inc.	DATE 8/11/79	9
ADDRESS 901 West El Caminito Phoenix, AZ 2IP	85021	
NAMELohn I_Yellott, P.E. PHONE POSITION/TITLEPresident	(603) 943-5805	stalling was street a
CURRENT DAYLIGHTING ACTIVITIES	ACTIVITY SUMMARY	1
Independent research on sun control by means of external screens, and internal shades, drapes, and Venetian blinds. This work combines control of admission of sun-related heat, and illumination.	AVAILABILITY DESIGN METHODS CONTROLS-LIGHT CONTROLS-SOLAR HISTORICAL REVIEW CASE STUDIES BEAM SUNLIGHTING SKYLIGHTS GLARE THERMAL/ILLUMIN. USER RESPONSE	X X X
RECENT PUBLICATIONS/PRESENTATIONS "The Phoenix Fenestration Tests of 1977-Thermal Aspects", presented at 1979 Summer Annual ASHRAE Meeting, to be in- cluded in Part II. ASHRAE Transactions for 1979.	BUILDING DESIGNER	

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AIMONE, MIKE			Χ		Х			Χ					-	
ALLING, W.R.					Χ					Х		X		
BALLINGER, JOHN A.	Х					Х			Χ					
BEDRICK, JAMES	Χ		Χ									X		
BURKHARDT, WILLIAM C.			Χ		Х	Х				Х	Х			
BURNETTE, PAULA					Х	Χ		Χ			Х		X	
CARNER, DON			-		Χ	Х		Χ			X		X	
DI LAURA, DAVID L.			Χ		Χ							X		
DUGUAY, MICHEL									X					
EDWARDS, HOWARD B.														
ELEY, CHARLES	Χ	Х	Χ							ı				

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		Х									Х		Х			JUROVICS, S.A.
									Х				Χ	Х		KINGSBURY, H.F.
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LYNES, J.A.		Х	X		Х	Х				Х		X	,	
MC NAMARA, JIM												X		
MATTHEWS, SCOTT	X				Х	X			Х					
MEHTA, LAHERI		Х	Х		Х	X	Х	Χ	Х	Х	Х	X	Х	
MILNE, MURRAY	Х		Х		Х	X			Х			X		
MILLET, MARIETTA		X	Х					Х						
RODGERS, NANCY		Х							Х					
SELKOWITZ, STEPHEN		Χ	Х		Х	Х		Х	Х	X		Х		
TERNOEY, STEVEN E.	Х		X					Χ	Х	X	×Χ	Х		
THOMAS, RICK	Х		X		Х		-				Х			
THRUN, ERIC	The second secon	Description of the second of t	And desired the second									X		

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JUROVICS, S.A.

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24,29,34		YELLOTT, JOHN I.
	3000000	

BURKHARDT, WILLIAM C.

"Solar U-Number (S-U-N) Modifiers for Skylights", (ASHRAE), Annual Technical Conf., 6/27/79, Detroit, Mi. ASHRAE Trans. 1979, Vol. 85, Part 2.

DI LAURA, DAVID L.

"On Calculating the Effects of Daylighting in Interior Spaces", Journal of the Illuminating Engineering Society, October, 1978.

DUGUAY, MICHEL A.

"Lighting with Sunlight Using Sun Tracking Concentrators", Applied Optics, Vol.18, pp.2081 - 2084, June 1979.

"Transmission of 3-D Images by Means of Lens Guides", Applied Optics, Vol. 16, pp. 1444 - 1446, May 1977.

"Solar Electricity: The Hybrid System Approach"

American Scientist, Vol. 65, pp.422 -427, July 1977.

EDWARDS, HOWARD B.

"Bringing Outdoor Light Indoors", The Virginia Engineer, pp.19, Feb. 1979.

''Optics for Natural Lighting'', NASA Tech. Brief No. LAR- 12333, 1978.

JUROVICS, S.A.

"Solar Radiation Data, Natural Lighting, and Building Energy Minization", ASHRAE Symposium June 1979, Paper No. DE-79-2 No. 1 and IBM LASC Report No. G320-2699.

LYNES, J.A.

"Principles of Natural Lighting", Applied Science Publishers, Middlesex, England, 1968.

Daylighting Publications

LYNES, J.A.

Developments in Lighting (Editor)
Applied Science Publishers,
Middlesex, England

MATTHEWS, SCOTT

"Daylight as a Central Determinant of Design", AIA Journal, pp. 86 - 92, Sept. 1979.

MILLET, M.S., J.R. BEDRICK, G.S. SPENCER & G.B. VAREY

"Lighting and Building Codes for Energy Conservation", <u>Proceedings of NBS/NCBCS</u> Joint conference on Research and Innovation in the Building Regulatory Process, 1978. (in press)

MILLET, M.S., J.R. BEDRICK, G.S. SPENCER & G.B. VAREY

"Design for Daylighting: A New Prediction Technique", <u>Proceedings of the Third National</u> <u>Solar Conference</u>, pp. 121 - 125, <u>Pergamon Press</u>, 1979.

MURDOCH, JOSEPH, B.

"A Procedure for Calculating the Potential Savings in Lighting Energy from the Use of Skylights", Journal of IES, July, 1977.

RODGERS, N.C., J.A. BALINGER, C. DUNCERLY

"An Analysis of Innovative Methods in Natural Lighting", Architectural Science Review, Vol. 22 No. 2, pp. 44 - 48, 1979.

"The Potential of Beam Sunlighting", Lighting Design & Application, pp. 33 - 35, November, 1979.

SELKOWITZ, STEPHEN

"Beam Daylighting, an Alternative Illumination Technique", Energy and Buildings, Vol. No. 1, 1977.

SELKOWITZ, STEPHEN

"Effective Daylighting in Buildings", Parts I and II, Lighting Design and Applications, Feb. and March, 1979.

"Daylighting and Passive Solar Buildings", Proceedings of the 3rd National Passive Solar Conference, pp. 271 - 281, January 1979.

TERNOEY, STEVEN

"Daylighting Design Methodologies", Tech. Report SERI/Passive Technology Branch Golden CO.

TURNER, OSCAR

"Window Management Can Lead to Energy Savings", The National Real Estate Investor, August 1979.

Two Tishman buildings in Orange County designed with photocell controlled multilevel lighting systems. (information package available) Tishman Research Corporation 666 Fifth Avenue, N.Y., N.Y. 10019

YELLOTT, JOHN I., P.E.

"The Phoenix Fenestration Tests of 1977 Thermal Aspects", presented at the 1979 Summer Annual ASHRAE Meeting to be included in Part II, ASHRAE Transactions for 1979.

CONTRACT

Eric Thrum (see directory listing) has been contracted by National Research Council of Canada to prepare: "A Manual of Practice for Energy Conscious Lighting Design", and "A Casebook of Energy Conscious Lighting Installations in North America".

APPOINTMENT

A. Peters Oppermann has been appointed Chairman of the Task Group on Daylighting, for the Illuminating Engineering Society.

Opperman is currently:

Director School of Architecture of Environmental Planning Kent State University Kent, Ohio 44242

FORTHCOMING PUBLICATION

Daylighting Resource Package

Much of the information required for daylighting design was developed 20 to 30 years ago and thus is readily available to practitioners today. Near term utilization of daylighting can best be advanced by assembling, revising and updating this body of largely existing daylighting design practices and making it accessible and intelligible to design professionals.

The development and dissemination of this resource package is seen as a process stretching over two years. A partial list of contents for the Daylighting Resource Package is as follows:

- Role of Windows & Skylights in Buildings
- Lighting FundamentalsThermal Fundamentals
- Daylight/Sunlight Sources
- Instrumentation
- How To Do a Daylight Survey
- Daylight Availability Data
- Design Methods
- Daylighting Computer Program

- Lighting Model Studies
- Lighting Systems & Controls
- Illumination Optimization
- Case Studies
- Building Codes

For further information contact:

Windows and Daylighting Program Building 90 Rm. 3111 Lawrence Berkeley Laboratory Berkeley CA 94720 415 (486-5605)

CONFERENCES, SEMINARS

"Energy Management in Buildings"

Program includes a section on light and lighting controls.

January 21-22, 1980 February 25-26, 1980 March 10-11, 1980

Los Angeles Washington, D.C. Minneapolis

Sponsor:

NewYork State University
School of Continuing Education
Division of Career of Professional Development
326 Shimkin Hall, New York, N.Y. 10003

Daylighting Seminar

A two-day session was sponsored by the New England IES chapter on November 1-2, 1979 in New Hampshire. A possible repetition of this seminar has been suggested for sometime in February 1980, New York.

For more information please contact:

Tom Lemmons T.L.S. Lighting Consultants 72 Loring Ave. Salem, MA 01970 (617) 745-6870

Daylighting Summer Institute, 1980

Sponsors: U.S. Department of Energy,
Lawrence Berkeley Laboratory and
University of California, Berkeley

Session to include: A preview of the daylighting learning units contained in the Daylighting Resource Package.

Notes of Interest

CONFERENCES, SEMINARS, continued

A display of new light measuring equipment, electronic controls and window systems.

A review of new daylighting computer programs and use of an artificial sky for scale model studies.

For additional information, contact:

Windows & Daylighting Program Bldg. 90 Rm. 3111 Lawrence Berkeley Laboratory Berkeley CA 94720 415 (486-5606)

CALL FOR PAPERS

Annual IES Conference

Deadline for Complete Manuscript March 28, 1980

M. Unglert, chairman L.E.S. Paper Committee 360 Cornell Street Wyckoff, N.J.

1980 Annual IES Conference Dallas, Tx. August 24-29, 1980

REQUEST FOR INFORMATION

Windows, for Energy Efficient Buildings

A publication of the Windows and Daylight Program at LBL. Issue number 3, to be distributed in spring of 1980 will feature Daylighting. We are currently seeking information on: lighting controls, sun controls, glass blocks and skylights. Copies are available free of charge and may be obtained by writing to:

Windows for Energy Efficient Bldgs, Bldg. 90, Rm 3111 Lawrence Berkeley Laboratory Berkeley CA 94720 (415) 486-5605

Notes of Interest

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